



Answers from AssessorNET

GENERAL DISCUSSION GROUP-

Q. Alvin Lankford, Georgetown, Texas

I am looking for some help on classing and depreciation schedules for "old town" homes. The homes I need help with are those built from the late 1800's through about 1950 located in the downtown areas of our local towns. We currently have them classed and grouped by the style of home such as Victorian, Bungalow, etc. Our depreciation schedule is the same for these homes as the newer built homes. We have noticed an influx of home buyers/remodelers in these areas, which are changing the values drastically and need some help catching up to the market. Does anyone have a classing and depreciation manual on these types of homes that I could use as a guide for developing our own?

A. Bill Healey, Cumberland, Maine

We had a similar situation here. We completed a revaluation project in April of this year, and while testing the model, we found that it was not working for older homes built between 1800 and 1920. We determined that there was no way other than grading the buildings much higher than they should be to capture the intrinsic value of the older homes. I didn't feel comfortable with this approach, so I decided to create a new building style in our database called "antique." We gave this class a higher price per square foot than the standard Cape, Colonial, etc. and applied it uniformly to most of our older dwellings. I say most because not every older home has antique characteristics. We used our best judgment in classifying these properties. I did have to adjust the grade of some dwellings downward because they were over-graded in the past, but my depreciation schedule did not have to be changed.

A. Allan Booth, Newport, Rhode Island

We have a number of "Colonial" homes. Sales history has proven that true "Colonial" homes sell for more than similar looking, newly (last 75 years) constructed homes. Our cost manuals, since 1992, have included a classification for "Historic Colonial" homes with the appropriate costs. Some are in perfect restored condition and some haven't had work done on them since the fifties. These differences are addressed with condition and depreciation.

A. Linda Cwiek, North Kingstown, Rhode Island

When the Town of North Kingstown did a revaluation several years ago, we also had the same problem because people were paying high prices for these older homes. The project manager for our revaluation suggested doing the same, and so a style "Historic," which starts with a higher base price, was created. This was used for homes built in the 1800's. In addition, for those that had been completely rehabbed (and kept the historic characteristics) we added another depreciation table for Rebuilt.

A. Gil Bulman, CAE, Spartanburg, South Carolina

We have been successful using an estimated effective age on the older homes. This can be adjusted based on the age and extent of remodeling or rehabilitation without creating additional classes or depreciation tables. It is applied to replacement costs.

A. Jimmy Tanner, Louisburg, North Carolina

I agree with Gil. Appraisers tend to downgrade these homes because they are old, and not all being renovated or having routine maintenance performed. But, once these older historic homes have been renovated, then the effective age must be an important factor. If you grade these homes as they should be (most are really nice quality for the period of construction), and apply the effective ages for being renovated or maintained, then the depreciation tables take care of the rest.

A. Derek J. Green, Eaton, Ohio

If you can isolate these parcels in CAMA by style "Colonial/Historic" you could always apply dwelling economic factor. This way you can keep your pricing/depreciation schedule intact. Only downside, factors can be hard to explain to public even if warranted.

A. Edgar Clodfelter, Adamant, Vermont

These old, classic, historic homes are prevalent in Vermont. They are typically good quality (or better) construction. If located in some of the desirable village settings they can be quite valuable. In my experience, the real key is to determine an appropriate effective age and condition. Because we have so many older houses in Vermont we have had to develop our own depreciation schedules instead of using the tables that come with the national cost services.

A. Linda Cwiek, North Kingstown, Rhode

We found that it became too hard to explain to the taxpayer why a 150-year-old house only had 10 percent depreciation and a much newer house had 24 percent depreciation. That was part of our reasoning for creating a style, "Historic," and starting with a higher square foot price. This allowed us to use a depreciation table that allowed for higher depreciation percentages.

A. Bernard C. Haney, Neptune, New Jersey

Edgar is exactly right. We have a section known as Ocean Grove. It is on the ocean and on the National Historic Registry. It is essentially a small village of 1,700 parcels consisting of residential, mixed use commercial small hotels and B&B's. We actually had to modify the depreciation table almost in complete reverse, whereby a 200-year-old Victorian home was much more valuable then a two-year-old "make believe" Victorian home. The more age, and upkeep of course, the more value. 200-year-old clunkers are still 200-year-old clunkers, but 200-year-old restored homes carry huge values (on 30 x 60 lots I might add).

A. Mike Miano, Boston, Massachusetts

Linda commented that the difficulty in explaining the depreciation rationale to a taxpayer was the driving force to develop a cost table that would allow for some flexibility in pricing these unique properties. Taking that one step further, the data is what it is and there is no question that given the





"The goal of the Assessor is not cost, but market value. Cost is merely the avenue to market value ..."



Property Assessment Valuation IAAO Textbook.





Goal is Market Value

Property is to be appraised at its fair market value. Fair market value is defined in 32 V.S.A. § 3481 as:

The price which the property will bring in the market when offered for sale and purchased by another, taking into consideration all the elements of the availability of the property, its use both potential and prospective, any functional deficiencies, and all other elements such as age and condition which combine to give property a market value.



Cost Approach

Sum of estimated land value and estimated depreciated cost of the building and other improvements.

Value = Land Value + Improvement Value

IV = (Replacement Cost New – Depreciation)
RCNLD



Cost Approach Works best:

- New Improvements
- Sale and Income data scarce
- Special Purpose Properties
- Industrial Properties

The difficulty in using the Cost Approach with older improvements is determining **Depreciation**, and it's significant other, **Effective Age**.



Market Adjusted Cost Approach

Replacement Cost Tables = Marshall & Swift

(Base Adjusted by Time/Location)

Tables 1 - 7

Depreciation

= Age/Effective and Condition

Table 40

Land Tables

= Land Value

(Housesite Value, Acres, Frontage) Tables 43, 44, 45, 57, 58, 59, 60

Site Improvements

= Water and Septic

Table 49

Outbuildings

= Marshall & Swift

(Detached Structures)
Table 46





Market Adjusted Cost Value

Land Value

(Market Based)

+

Building Value

(Town Specific Adjusted M&S Tables and Depreciation)

+

Outbuildings Value

(M&S Tables)

+

Site Improvements

(Water & Septic Contributory Value)



All structures are made up of elements that have varying economic lives.

Building Element Considerations:

Type (residential, commercial, etc.)

Quality (grades, style)

Structure (foundation and framing)

Exterior (siding, style)

Roof (type, pitch, cover)

Windows (type, screens)

Plumbing (fixtures, type and grade)

Heating and Air Conditioning (type and capacity)

Room and Finish (flooring, trim, walls)

Bath Details (number, type)

Many are items that become worn and depreciate over time.



Depreciation: The loss in value, from all causes, of property having a limited **economic life**.

Types of Depreciation:

- Physical Deterioration The loss in value due to wear and tear over time.
- Functional Obsolescence The loss of value due to changes in style, taste, technology, needs and demands.
- **Economic Obsolescence** The loss of value due to factors external to the property.



Depreciation/Obsolescence: Curable and Incurable

Curable -

Repairing or replacing obsolescence or physical loss at a reasonable cost. The repair must make economic sense. Example - Replacing a furnace.

Incurable -

When the defect in an asset becomes too costly to repair.

Example - Replacing Foundation

Example – Small residential dwelling on commercial strip. (Dorset street in South Burlington)



MicroSolve Residential Depreciation Tables

The MicroSolve computer assisted mass appraisal (CAMA) system can calculate physical depreciation on residential improvements, mobile homes and camps in several ways.

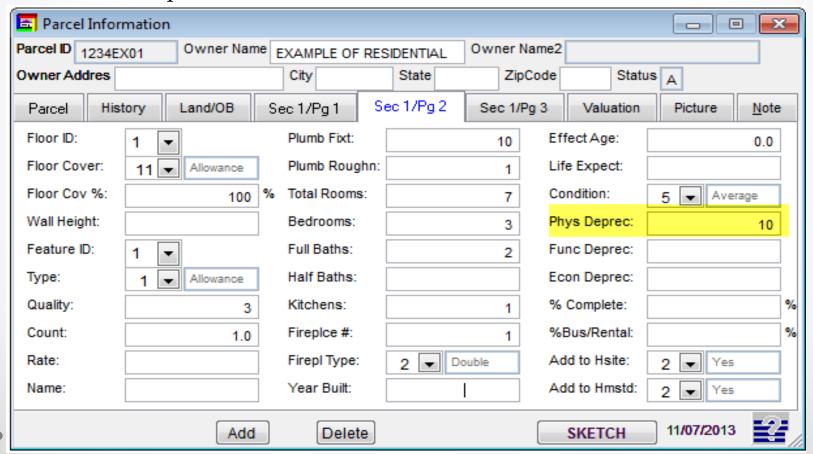
The following will describe how the user can utilize table lookups based on age (or effective age) and condition, or use direct input of physical depreciation.



I. Direct Input:

Direct Input of Depreciation applied to Dwelling - Example

- Physical Depreciation of 10 percent entered
- 10 percent of the RCN value will be removed
 - Depreciation is "forced" by the user
- Depreciation will remain until deleted from the record.





II. Table Lookup: Effective Age Input

- Depreciation Table based on Age/Effective Age and Condition
- Effective Age reflects condition and utility relative to actual age
- If Physical Depreciation blank, and Effective Age entered Table Lookup

Example – 150 year old Dwelling
Improvements to current living standards
Wiring
Heating System
Plumbing
Updated Kitchen
Modern Bath

Effective Age Say 60 - 70





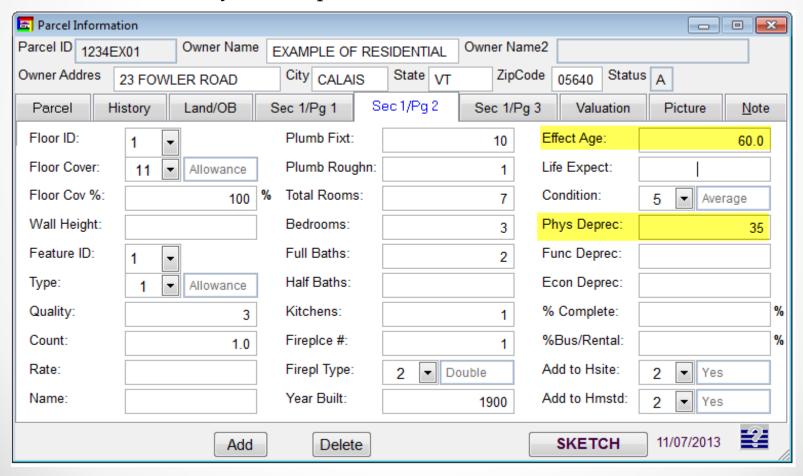
Input Effective Age and Condition = Table Lookup

Parcel Information										
Parcel ID 1234E)	Owner Name	EXAMPLE OF RESIDENTIAL Owner Name2								
Owner Addres	23 FOWLER ROAD	City CALAIS	State VT Zip	Code 05640 Statu	s A					
Parcel His	story Land/OB	Sec 1/Pg 1	ec 1/Pg 2 Sec 1/	Pg 3 Valuation	Picture <u>N</u> ote					
Floor ID:	1	Plumb Fixt:	10	Effect Age:	60.0					
Floor Cover:	11 ▼ Allowance	Plumb Roughn:	1	Life Expect:						
Floor Cov %:	100	% Total Rooms:	7	Condition:	5 ▼ Average					
Wall Height:		Bedrooms:	3	Phys Deprec:	0					
Feature ID:	1	Full Baths:	2	Func Deprec:						
Туре:	1 ▼ Allowance	Half Baths:		Econ Deprec:						
Quality:	3	Kitchens:	1	% Complete:	%					
Count:	1.0	Fireplce #:	1	%Bus/Rental:	%					
Rate:		Firepl Type:	2 Double	Add to Hsite:	2 ▼ Yes					
Name:		Year Built:	1900	Add to Hmstd:	2 Yes					
	Add	Delete		SKETCH	11/07/2013					



Running Cost System completes Table Lookup for Effective Age and Condition. Used to calculate depreciated amount for RCNLD.

Fills the field of Physical Depreciation from Table 40.





		Itemized Property Costs
From Table: MAIN	Section 1	Sample Town

Property ID: 1234 EX 01 Span #: 354-109-10763 Last Inspected: 04/01/2011 Cost Update: 02/10/2016

Record # 750

Owner(s): EXAMPLE OF RESIDENTIAL Sale Price: 0 Book: Validity: No Data Sale Date: // Page:

Address: 23 FOWLER ROAD Bldg Type: Single Quality: 3.00 AVERAGE

City/St/Zip: CALAIS VT 05640 Style: 1.5 Fin Frame: No Data

Location: 0 Area: 1760 Yr Built: 1900 Eff Age: 60

escription:EXAMPLE Of ax Map #:	- RESIDENTIAL	# Rms: 7 # 1/2 Bath: 0		Bedrm: 3 Baths: 2	# Ktchns: 1	
Item	Description	Percent	Quantity	Unit Cost	Total	
BASE COST						
Exterior Wall #1:	WdSidng / Ht=8	100.00		76.62		
ADJUSTMENTS						
Roof #1:	CompShg	100.00				
Subfloor	Wood					
Floor cover #1:	Allowance	100.00		3.93		
Heat/cooling #1:	HW Rad	100.00		1.97		
Energy Adjustment	Good			1.88		
ADJUSTED BASE COS	ST .		1,760.00	84.40	148,544	
ADDITIONAL FEATURE	ES					
Fixtures (beyond allow	ance of 8)		2.00	1,360.00	2,720	
Roughins (beyond allo	wance of 1)			550.00		
Fireplaces	1.5 Fin / Double		1.00	5,556.50	5,557	
Features #1:	Allowance		1.00	3,250.00	3,250	
Porch #1:	WoodDck/Solid/Roof/Ceil		540.00	41.67	22,502	
Porch #2:	WoodDck/NoWall/NoRoo		204.00	16.41	3,348	
Basement	Conc 8"		992.00	21.32	21,149	
Finished Basement	Partition		500.00	30.42	15,210	
Garage/Shed #1:	A/1.5S/WdSidng/Ful+Rec		600.00	43.94	26,366	
Garage/Shed #2:	Carport/No Data/No		500.00	8.55	4,275	
Subtotal					252,920	
Local multiplier		1.00				
Current multiplier		1.00				
REPLACEMENT COST	NEW				252,920	
Condition	Average	Percent				
Physical depreciation		35.00			-88,522	
Functional depreciatio	n					
Economic depreciation	1					
REPLACEMENT COST	NEW LESS DEPRECIATION				164,400	

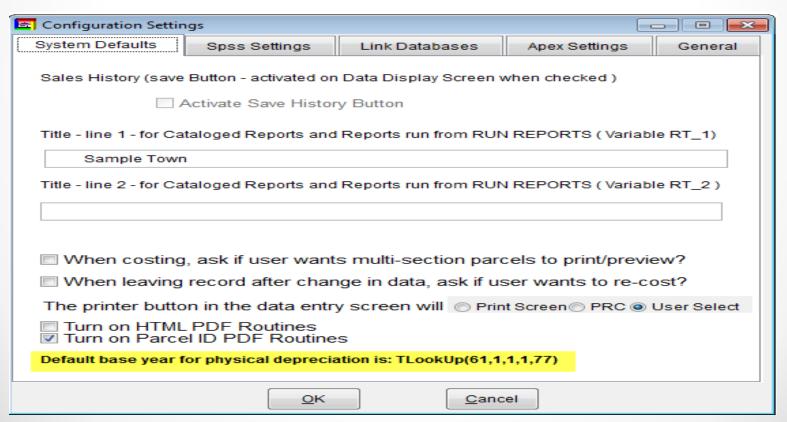


III. Table Lookup: Effective Age Calculated

Effective Age based on Year Built and Base Year

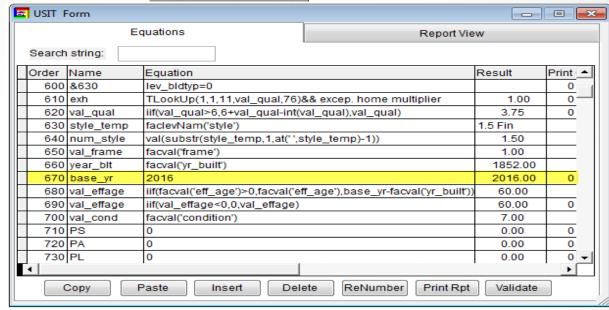
Base Year is year of completion of reappraisal

Stored in either USIT or new Table 61





Old Usit Program



Updated Table 61

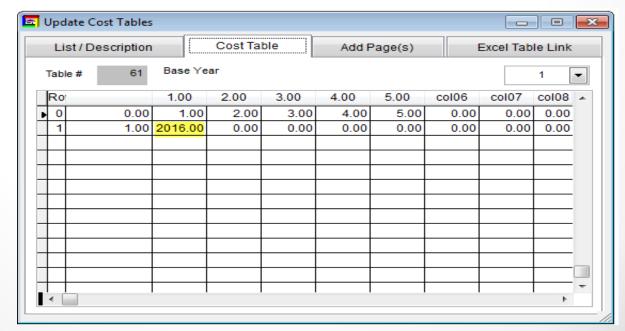




Table Lookup: Effective Age Calculated

- If Physical Depreciation Blank
- And Effective Age field Blank
 - And Year Built Exists

Calculated Effective Age from Year Built and Base Year

Example with Base Year 2013

Sale Price:	316,500	Book:		Validity: Yes	
Sale Date:	03/15/2006	Page:			
Bldg Type:	Single	Quality:	3.00	AVERAGE	
Style:	1.5 Fin	Frame:	No Da	ata	
Area:	1760	Yr Built:	2000	Eff Age: 13	
# Rms:	7	# Bedrm:	3	# Ktchns: 1	
# 1/2 Bath:	0	# Baths:	2		

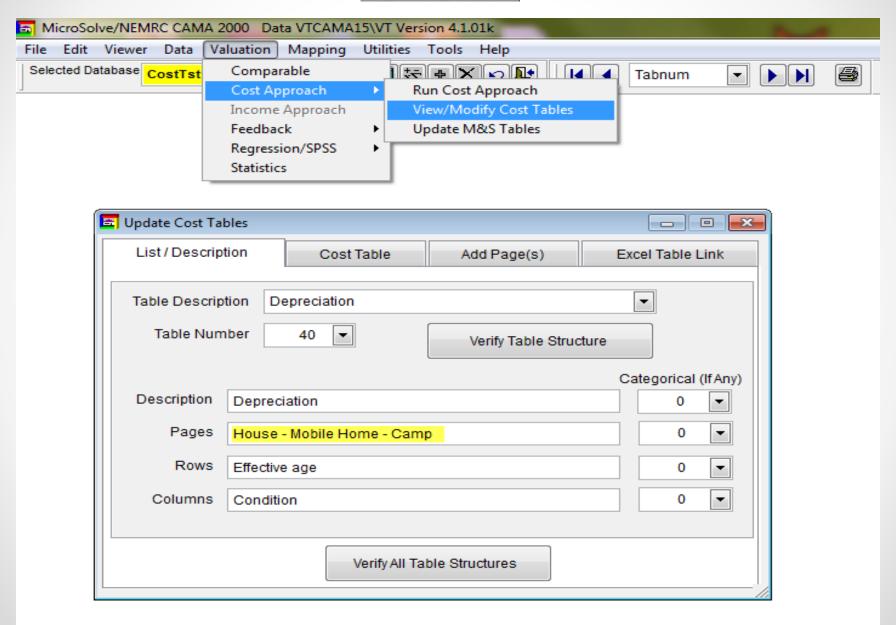


Depreciation Table:

Depreciation tables can be developed and input for:

- Residential Dwellings
 - Mobile Homes
 - Camps







Column 0 Effective Age - Row 1 through 9 Condition

	_						_	_				
Table			0	1	2	3	4	5		7	8	9
40	1	1	1	15	9	3	0	0	0	0	0	0
40	1	2	2	16	12	9	5	1	0	0	0	0
40	1	3	3	17	14	10	7	3	0	0	0	0
40	1	4	4	18	15	11	8	4	1	0	0	0
40	1	5	5	19	16	12	9	5	2	1	0	0
40	1	6	6	20	17	13	10	6	3	2	1	0
40	1	7	7	21	18	14	11	7	4	3	2	0
40	1	8	8	23	19	15	12	8	5	4	3	1
40	1	9	9	24	20	16	13	9	6	5	4	2
40	1	10	10	25	21	17	14	10	7	6	5	3
40	1	11	11	26	22	18	15	11	8	7	5	3
40	1	12	12	27	23	19	16	12	9	8	6	4
40	1	13	13	28	24	20	17	13	10	9	6	4
40	1	14	14	29	25	21	18	14	11	10	7	5
40	1	15	15	30	26	23	19	15	12	10	7	5
40	1	16	16	31	27	23	19	15	12	10	7	5
40	1	17	17	32	28	24	20	16	13	11	8	6
40	1	18	18	33	29	25	20	16	13	11	8	6
40	1	19	19	34	30	26	21	17	14	11	8	6
40	1	20	20	35	31	26	22	17	14	12	9	7
40	1	21	21	36	32	27	22	18	15	12	9	7
40	1	22	22	37	33	28	23	18	15	12	9	7
40	1	23	23	39	34	28	23	18	15	12	9	7
40	1	24	24	40	34	29	24	19	16	13	10	8
40	1	25	25	41	35	30	25	19	16	13	10	8



Table 40, Page 2 - MHO Depreciation

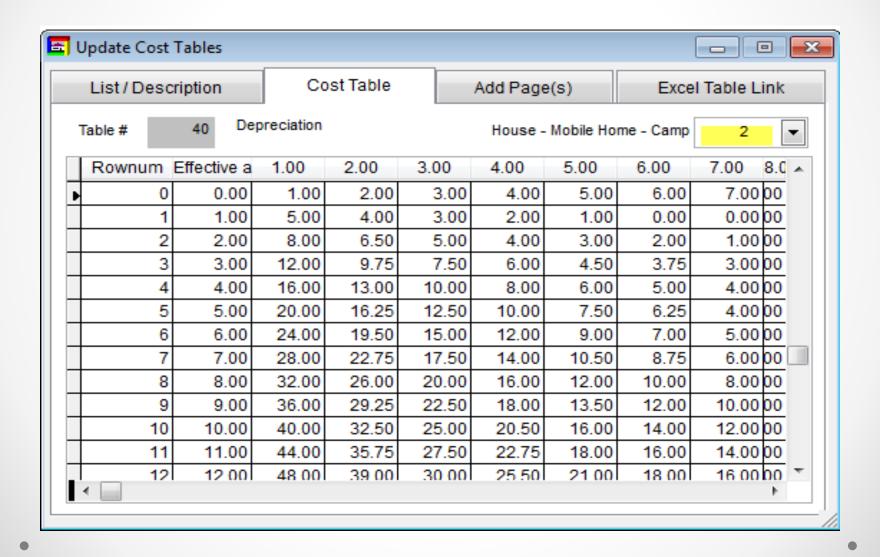




Table 40, Page 3 – Camp Depreciation

☑ Update Cost Tables										
	List/Desc	ription	Co	st Table		Add Page	e(s)	Excel Table Link		
	Table #	40 De	preciation			House - Mobile Home - Camp 3			3	•
	Rownum	Effective a	1.00	2.00	3.00	4.00	5.00	6.00	7.00 8.0	
Þ	0	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00 00	
	1	1.00	18.75	11.25	3.75	0.00	0.00	0.00	0.00 00	
	2	2.00	20.00	15.00	11.25	6.25	1.25	0.00	0.00 00	
	3	3.00	21.25	17.50	12.50	8.75	3.75	0.00	0.00 00	
	4	4.00	22.50	18.75	13.75	10.00	5.00	1.25	0.00 00	
	5	5.00	23.75	20.00	15.00	11.25	6.25	2.50	1.25 00	
	6	6.00	25.00	21.25	16.25	12.50	7.50	3.75	2.50 25	
	7	7.00	26.25	22.50	17.50	13.75	8.75	5.00	3.75 50	
	8	8.00	28.75	23.75	18.75	15.00	10.00	6.25	5.00 75	
	9	9.00	30.00	25.00	20.00	16.25	11.25	7.50	6.25 00	
	10	10.00	31.25	26.25	21.25	17.50	12.50	8.75	7.50 25	
	11	11.00	32.50	27.50	22.50	18.75	13.75	10.00	8.75 25	
12 12 00 33 75 28 75 23 75 20 00 15 00 11 25 10 00 50										



Depreciation Calculations:

Direct Input

Table Lookup: Effective Age Input

Table Lookup: Effective Age Calculated



Summary

1

2

3

Physical Depreciation Exists

> If Depreciation exists then use that percentage to calculate RCNLD.

Effective Age Exists

•If Physical
Depreciation is
blank then check if
Effective Age is
present. If so, use
Effective Age and
Condition to lookup
Depreciation.

Year Built Exists

•If Physical
Depreciation is
blank, and Effective
Age is blank, then
calculate Effective
Age from Base Year.
Lookup based on
Effective Age and
Condition.



Effective Age

The Effective Age of a residence is its age in years as compared with other residences performing like functions.

It is the <u>actual age less any years</u> that have been taken off by face-lifting, structural reconstruction, removal of functional inadequacies, modernization of equipment, etc.

From Marshall & Swift presentation IAAO conference 2012

By curing obsolescence we are increasing the Economic Life of the Improvement



Effective Age – "What you see is what you get"



Consider meeting someone new. You know they are 60, but when you meet them you notice they have taken good care of themselves and appear more like 50.

Their chronological age is 60, but their effective age is 50.

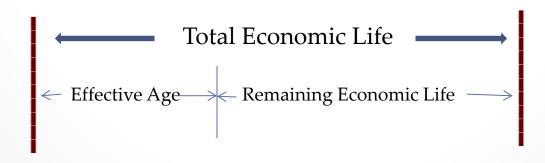


Effective Age may or may not be the same as actual or chronological age. Dependent upon:

- Maintenance
- Design
- Location

Effective Age + Remaining Economic Life = Total Economic Life

Effective Age and remaining Economic life equals the total life span of an improvement.





Effective Age

Depreciation =

Total Economic Life

Example: EA 80 / TEL 200 = .40

Calculating Total Economic Life

Depreciation 0.40

Effective Age 80

Annual Percentage .40/80 = 0.005

Total Economic Life 1/.005 = 200



Typical Building Lives

Marshall and Swift

	Single	Family	Manufa	Cabins	
Quality	Frame	Masonry	Single	Multi	Frame
Low	45	50	20	25	35
Fair	50	55	20	25	40
Average	55	60	25	30	45
Good	55	60	30	35	50
Very Good	55	60	35	40	
Excellent	60	65	40	45	



Effective Age Problem:

- 1. Older homes do not work with Typical Building Lives Tables
- 2. Determination is frequently based on observation.
- 3. Various levels of experience in application
- 4. Difficult to explain
- 5. Difficult to maintain consistency
- 6. Guess work

Effective Age Importance

- 1. Critical variable used with Depreciation tables
- 2. Provides basis for calculation of RCNLD
- 3. Critical variable for use with comparable sales
- 4. Allows for consistency of assessments



Need a way to conceptually determine Effective Age for Mass Appraisal

Must be simple to Implement

Easy to Understand

Easy to Explain

Can be Consistently Applied



Estimating Effective Age by Unit-in-Place Method ***A Guideline***

- Similar to Unit-in-Place method of Cost Approach
- Building components segregated into Units of construction
- Recognize each "units" contribution to overall depreciation



Economic Life of Improvements

- Long Lived Items
 - Basic structure components
 - Likely incurable deterioration



- Short Lived Items
 - Building component replaced several times
 - Likely curable









Building (Components
------------	------------

(Accumulated from M&S)

Basic Structure : Long Lived Items	<u>%6</u>
Excavation/Foundation/basement	15
Framing	20
Rough-in Electrical/Plumbing	15
Total Percentage	50

Short Lived Items

Windows/Exterior Doors	3
Heating/Cooling System	7
Exterior Cover	5
Interior / Painting /Decorating	12
Appliances and Cabinets	13
Plumbing Fixtures	5
Floor Covering	3
Light Fixtures and Hardware	2
Total Percentage	50



Building Components

(Accumulated from M&S)

Basic Structure: Long Lived Items

	%		Actual Age		
Excavation/Foundation/basement	15	X	100	=	15
Framing	20	X	100	=	20
Rough-in Electrical/Plumbing	15	X	100	=	15
Total Percentage	50				50

Short Lived Items

%		Actual Age		
3	X	10	=	0.3
7	X	40		2.8
5	X	50	=	2.5
12	X	15	=	1.8
13	X	10	=	1.3
5	X	10	=	0.5
3	X	40	=	1.2
2	X	10	=	0.2
50				10.6
	3 7 5 12 13 5 3	3 X 7 X 5 X 12 X 13 X 5 X 3 X 2 X	3 X 10 7 X 40 5 X 50 12 X 15 13 X 10 5 X 10 3 X 40 2 X 10	3 X 10 = 7 X 40 5 X 50 = 12 X 15 = 13 X 10 = 5 X 10 = 3 X 40 = 2 X 10 =

Effective Age

Base Year is 2016

60.6



Simplified Version

	Years	Percent	Lff Age
Basic Structure	100	50.00%	50
Heating and Flooring	10	10.00%	1
All others	5	40.00%	2
	Effective	Age	53
	Say		50



Year Built	Effective Age
1961 - 2015	Actual Age
1900 - 1960	40 - 60
1850 - 1899	60 - 80
Prior 1850	80 - 100

The Effective Ages depend on the types of upgrades completed.

If an 1860 house has been totally updated it my be in the 30 - 40 range.

These ages are the starting point relative to the condition of the property.

CAMA System Depreciation NEMBC FUND ACCOUNTING



New Construction

Year Built 2015

Actual Age = Effective Age





Year Built 1997

Actual Age = 19

Effective Age = 19





Year Built 1830

Actual Age = 186

186 / 2 = 93

Effective Age = 90 - 95



Residential Property Record Card

Date Printed 02/10/16

Parcel 09.01.12

Owner

1205 NORTH ORANGE STREET WILMINGTON, DE 19801

Location 63 BROOKS BUNGALOW RD

Descr: 47.5 AC & DWL:

Parcel Value Information

Land Value 405,100 Homestead 501,900 Dwelling Value 73,500 Housesite 315,600

Site Imprvmnt 20,000 Outbuildings 3,300

Misc. Adj. 0 Total 501,900



09.01.12

Sketch Updated: 10/29/14

Tax Map	# 0	9.01.12.	NBHD	13	
Span	786-250-103	59	Acres		47.50
Status	A - Active		Last Undate		02/10/16

Parcel Information

Owner Information

Sales Information

Book 253 Sale Date 12/14/15 Page 243-246 Sale Price 500,000

BUILDING	Total Rooms	8	Year Built	1830	Building SF	1896	Energy Adj	Average	Roughins	1
	Bedrooms	5	Effect Age	95	Quality	3.00	Bsmt Wall	Stone	Plumb Fixt	5
	Full Baths	1	Condition	Average	Style	1.5 Fin	Bsmt SF	644	Fireplaces	0
	Half Baths	0	Phys Depr	54	Design	CapeCod	Bsmt Fin	UnFinsh	Porch	221
	Kitchens	1	Funct Depr	10	Bldg Type	Single	Bsmt Fin SF	0	Gar/Shed	0
			Econ Depr	0					% Complete:	0
LAND	CALC	Site	LAND	Bldg Lot	AREA	2.00	GRADE	1.25	FRONTAGE	0.00
		Acreage		Other		45.50		0.80		0.00

NOTES

Why Functional Depreciation?

NEMRC FUND ACCOUNTING

		Ite	emized Proper	ty C	osts				
From Table: MAIN Sec	tion 1	TOWN C	F WOODS	гос	K 16		Recor	rd # 1581	
Property ID: 09.01.12	Span	#: 786-250	Last Ins	spec	ted: 10/29/2	2014	Cos	t Update: ()	2/10/2016
Owner(s):			Sale Price:			Book:	253	Valid ity:	Yes
City/St/Zip: WILMINGTON			Sale Date: Bldg Type: Style:	Sin	gle (Fin l	rame:	Stude	AVERAGE led	
	S BUNGALOW R	D	Area:	189				Eff Age:	
Description: 47.5 AC & DWL			# Rms:	8		Bedrm		# Ktchns:	1
Tax Map #: 09.01.12.			# 1/2 Bath:			Baths:			T-4-1
Item	D	escription	Perce	nt	Quantity	Unit	Cost		Total
BASE COST	14410:1	/ / / / 0	400	00			75.64		
Exterior Wall #1:	WdSid	ng / Ht=8	100.	00			75.64		
ADJUSTMENTS Roof #1:		Mtl-Sms	100.	00			1.12		
Subfloor		Wood	100.	00			1.12		
Floor cover #1:	,	Allowance	100.	nn			3.93		
Heat/cooling #1:		ForcAir	100.				3.33		
Energy Adjustment		Average	100.	00					
ADJUSTED BASE COST		Average			1,896.00		80.69		152,988
ADDITIONAL FEATURES					1,050.00	<u>'</u>	00.03		132,300
Fixtures (beyond allowar					-3.00	13	60.00		-4,080
Roughins (beyond allow	-				-5.00		50.00		-4,000
Porch #1:	WoodDck/NoW	all/Roof/C			161.00		35.83		5.769
Porch #2:	WoodDck/NoW				60.00		42.67		2,560
Basement		Stone			644.00		24.49		15,772
Subtotal									173,008
Local multiplier			1.	18					
Current multiplier			1.	00					
REPLACEMENT COST N	EW								204,149
Condition		Average	Perce	nt					-
Physical depreciation			54.	00					-110,241
Functional depreciation			10.	00					-20,415
Economic depreciation									
REPLACEMENT COST N	EW LESS DEPR	RECIATION							73,500
LAND PRICES		Size	N bhd M	ult	Grade	Depth	n/Rate		
SI Bldg Lot		2.00	1.	00	1.25				218,800
AC Other		45.50	1.	00	0.80				186,300
Total		47.50							405,100
SITE IMPROVEMENTS	Hsite/Hstd	Quantity	Qual	ity	·				
Water	y/y	Typical	Avera	ge					5,000
Sewer	y/y	Typical	Avera	ge					15,000
Total									20,000
OUTBUILDINGS	Hsite/Hstd			ze	Rate	_	xtras		
Mat storag	у/у	85	1	77	18.84				3,300
Total									3,300
TOTAL PROPERTY VALU	JE								501,900



Residential Property Record Card Date Printed 02/10/16 Owner Information Parcel Value Information Parcel 33.02.15 85,400 Homestead 273,200 Land Value a.x.c 323 Owner 167.800 Housesite 273.200 Dwelling Value Site Imprymnt 20,000 \$1 - 2nd Floor \$12.0 ef Outbuildings PO BOX 173 Misc. Adi. 0 S WOODSTOCK, VT 05071 Total 273,200 Location 5014 SOUTH RD Descr: .53 AC & DWL: 31 - Carage 1 *C0 Caf 1 - 181 = 00 28.0 s Parcel Information Tax Map# 33.02.15. NBHD 31 - 1st Floor 832 0 sf Span 786-250-11160 Acres 0.53 A - Active Last Update Status 02/10/16 Sales Information 32.3 Sale Date 10/03/13 Book 243 Sketch Updated: 11/23/15 Page 275,000 154 Sale Price BUILDING Building SF 1470 Energy Adj Total Rooms Year Built 1852 Good Roughins Plumb Fixt 60 Quality 3.75 Bsmt Wall Stone Bedrooms Effect Age 1.5 Fin Full Baths 1 Condition Good Style Bsmt SF 832 0 Fireplaces UnFinsh Half Baths Phys Depr 24 Design CapeCod Bsmt Fin Porch Funct Depr Bldg Type Single Bsmt Fin SF Gar/Shed 450 Kitchens Econ Depr % Complete: 0 LAND 1.15 AREA GRADE FRONTAGE 0.00 CALC Site LAND Bldg Lot 0.53 NOTES House renovated before sale.



Building	Components
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(Accumulated from M&S)

	%	% Actual Age			
Excavation/Foundation/basement	15	X	164	=	24.6
Framing	20	X	164	=	32.8
Rough-in Electrical/Plumbing	15	X	40	=	6
Total Percentage	50				63.4

Short Lived Items

	%		Actual Age		
Windows/Exterior Doors	3	X	3	=	0.09
Heating/Cooling System	7	X	3		0.21
Exterior Cover	5	X	3	=	0.15
Interior / Painting /Decorating	12	X	3	=	0.36
Appliances and Cabinets	13	X	3	=	0.39
Plumbing Fixtures	5	X	3	=	0.15
Floor Covering	3	X	3	=	0.09
Light Fixtures and Hardware	2	X	3	=	0.06
Total Percentage	50				1.5

Effective Age

Base Year is 2016

64.9

NEMRC FUND ACCOUNTING

		nized Property Costs		
From Table: MAIN Section 1	1 TOWN OF	WOODSTOCK 16	Recor	d # 3453
Property ID: 33.02.15	Span #: 786-250-111	60 Last Inspected: 10/14	/2015 Cos	t Update: 02/1 0/2016
Owner(s): HAWTHORN DEBO	RAH Y	Sale Price: 275,000 Sale Date: 10/03/2013	Book: 243 Page: 154	Validity: Yes
Address: PO BOX 173		Bldg Type: Single	Quality: 3.75	
City/St/Zip: S WOODSTOCK VT	Г 05071	Style: 1.5 Fin	Frame: Studd	
Location: 5014 SOUTH RD		Area: 1470	Yr Built: 1852	
Description: .53 AC & DWL: Tax Map #: 33.02.15.		# Rms: 6 # 1/2 Bath: 0	# Bedrm: 2 # Baths: 1	# Ktchns: 1
Item	Description	Percent Quantity		Total
BASE COST	2 22 21 1			
Exterior Wall #1:	WdSidng / Ht=8	100.00	95.88	
ADJUSTMENTS	vvaciang. The o	100.00	00.00	
Roof #1:	Mtl-Sms	100.00	0.90	
Subfloor	Wood			
Floor cover #1:	Allowance	100.00	3.93	
Heat/cooling #1:	ForcAir	100.00		
Energy Adjustment	Good		1.92	
ADJUSTED BASE COST		1,470.0	0 102.63	150,858
ADDITIONAL FEATURES				
Fixtures (beyond allowance of	of 8)	-3.0	0 1,971.25	-5,914
Roughins (beyond allowance	e of 1)		658.75	
Basement	Stone	832.0		21,682
Garage/Shed #1:	A/1.5S/WdSidng/No	450.0	0 45.46	20,459
Subtotal				187,084
Local multiplier		1.18		
Current multiplier		1.00		
REPLACEMENT COST NEW				220,759
Condition	Good	Percent		
Physical depreciation		24.00		-52,982
Functional depreciation				
Economic depreciation REPLACEMENT COST NEW	LESS DEDDECIATION			167,800
LAND PRICES		Nbhd Mult Grad	la Danth/Data	167,000
	Size 0.53	Nbhd Mult Grad 0.85 1.1		85,400
SI Bldg Lot Total	0.53	0.65	5	85,400
SITE IMPROVEMENTS	Hsite/Hstd Quantity	Quality		65,400
Water	y/y Typical	Average		5.000
Sewer	y/y Typical	Average		15.000
Total	y y Typicai	Avelage		20,000
TOTAL PROPERTY VALUE				273,200
NOTES		HOUSESIT	E VALUE: .	273,200
		HOMESTEA		273,200
House renovated before sale				2.0,200



Summary

Unit-in-Place approach provides a Guideline

Importance of consistency

Use with caution for high value historic properties





Information Sources



"A Mass Appraisal Approach to Developing Effective Age Tables for Residential Mass Appraisal" Mary Jo Staroska, CAA 1998

"Estimation and Use of Effective-Age and Evaluation of Depreciation Schedules in the Mass Appraisal Process" Gary McCabe, CAE 1995 IAAO Publication



The following **example** demonstrates how the estimate of Effective Age for a Single Family Residence is derived. Utilizing the Sales Comparables within the appraisal report, a range of effective ages can be developed. Since the Comparables selected have been deemed by the appraiser to be the most comparable to the subject from the market, support for an opinion of effective age can be substantiated.

Chronological Age of Subject – 35 Years

Sale Price of Comparable #1 – Age Equal to Subject: \$167,900

Subtract the estimated land value (the site) from the sale price.
 33,600

3. Value attributable to the depreciated improvements \$134,300

Replacement cost of the home and other improvements from the appraisal:

House (2,200 sq. ft. x \$100.20) = \$220,440
Garage = 12,100
Site Improvements = 3,600
Total Replacement Cost \$236,140

 Calculate the Total Depreciation by subtracting the value attributable to the improvements from the replacement cost new. Depreciation abstracted includes all forms of depreciation. (Step 3) from the reproduction cost (Step 4)

Percentage Depreciation of the improvements:

Total Depreciation: \$236,140 - \$134,300 = \$101,840 (Market Abstracted)

(\$101,840 / \$236,140)

8. Economic Life: 55 Years x 43.13% = 23.72

9. Effective Age Estimate: SAY 24 Years

10. Chronological Age (35) Effective Age of Comparable (24)

If this process is repeated to the other Comparables, a simple range is developed and the appraiser could reasonably determine an effective age by comparison for the subject property. If the Sale Price of the subject is known, the same method of abstraction could be used on the subject, thus giving the appraiser an indication where the subject property falls within the market.



43.13%